INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/2415

		i	PC1/0304/24131		
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : B01D 53/02; B 23P 19/04					
US CL : 29/402.08; 96/13O					
According to	International Patent Classification (IPC) or to both	national classification	and IPC		
B. FIELDS SEARCHED					
Minimum desupportation are school (all anti-Garting system followed by closeifferston symbols)					
Minimum documentation searched (classification system followed by classification symbols)					
U.S. : 29/402.08; 96/130, 151, 115					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Documentation scatched order than infilming documentation to the executivities are included in the firstes scatched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
				Delevent to eleim No.	
Category *	<u></u>	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim i			
A	US 4,584,001 A (DECHENE) 22 April 1986 (22.0	04.1986), See entire patent. 1-7			
	j l				
A	US 4,509,959 A (McCOMBS) 09 April 1985 (09.04.1989), See entire patent.				
A	US 4,373,938 A (McCOMBS) 15 February 1983 (15.02.1983), See entire patent.				
A	US 5,549,736 A (COFFIELD et al.) 27 August 1996 (27.08.1996), See entire patent.				
l a	US 4,545,790 A (MILLER et al.) 08 October 1985 (08.10.1985), See Figure 1.				
ļ ·-	55 4,545,156 A (MB222A of Ma) 56 George 1765 (65) 651 612 613				
A	US 4,378,982 A (McCOMBS) 05 April 1983 (05.04.1983), See Figures 1-3.				
(3.0),500 (3.00 (3.00)					
A	US 5,827,358 A (KULISH et al.) 27 October 1998	(27 10 1998) See Fig	nires 1 and 2		
obsider the Brother and the Br					
Į					
İ					
,				1	
				<u> </u>	
Further	documents are listed in the continuation of Box C.	See natent	family annex.		
* S	pecial categories of cited documents:			ernational filing date or priority cation but cited to understand the	
"A" document	defining the general state of the art which is not considered to be		n conflict with the applications the investment of the investment		
of particular relevance					
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step.					
r carner ap	plication or patent published on or after the international filing date		ument is taken alone	TO M DESCRIPTION OF BELLEVIEW O	
"L" document which may throw doubts on priority claim(s) or which is cited to					
establish (specified)	the publication date of another citation or other special reason (as		particular relevance; the involve an inventive ste	claimed invention cannot be	
specified				h documents, such combination	
"O" document	referring to an oral disclosure, use, exhibition or other means		to a person skilled in th		
500 days and black a single sky to residence to the burn beautiful to the single sky to the same and the sa					
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
Date of the a	ctual completion of the international search	Date of mailing of the	Date of mailing of the international search report		
00 0	- 2004 (00 12 2004)	2 9 DEC. 2004			
	2004 (09.12.2004)	Authorized officer			
	ailing address of the ISA/US	Authorized officer			
	1 Stop PCT, Attn: ISA/US nmissioner for Patents	Authorized officer Sharm I mene for David P. Bryant			
	Box 1450	,		v	
	xandria, Virginia 22313-1450	Telephone No. 703-	308-1146		
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)